



**N-SEA FLEET:
QUALITY
ASSETS
WORKING
FOR YOU**

**N-SEA VESSEL
NOORDHOEK
PATHFINDER**

DELIVERING SUBSEA
PEOPLE / VESSELS / EQUIPMENT

N-SEA: NOORDHOEK PATHFINDER



N-Sea is an independent subsea contractor operating within the international oil and gas, cable, dredging and renewable energy industries.

The Noordhoek Pathfinder is purpose built for our field of operations and was delivered in early 2010. Managed and operated by N-Sea, the Noordhoek Pathfinder is a DP II Multipurpose Offshore Support Vessel with accommodation for forty people.

Her transit speed and endurance enable extremely efficient operations and the vessel is capable of performing a broad range of tasks worldwide.

The Noordhoek Pathfinder is equipped for ROV, diving and survey projects, with integrated air diving systems, vessel-mounted USBL, multibeam, sub-bottom profiler, ROV and ROTV as standard. The onboard working areas include online and offline operational rooms, with sufficient facilities for data acquisition, processing and reporting.

The 25 mT offshore crane and three moon pools allow for safe and efficient deployment of additional subsea hardware such as a geotechnical and sediment sampling equipment.

SURVEY

The capabilities of our survey business unit include construction and installation support, pipeline and cable inspection, hydrographical/geophysical survey and geotechnical services as well as in-house processing, analysis and reporting.

PERMANENT SURVEY

Permanently installed:

- 1 x Reson 7125 Multibeam
- 1 x L3 Klein 3310 Subbottom Profiler
- 1 x L3 Klein 3000 Side Scan
- 1 x Edgetech 4200 Side Scan
- 1 x Veripos Ultra DGPS
- 1 x CNAV 3050 DGPS
- 1 x POSMV Inertial MRU + Backup
- 1 x Sonardyne Ranger 2 USBL

SURVEY OFFICES / LABORATORIES / WORKSHOP

1x Offline Office	4 workstations
Online / Controls Office	6 workstations
Wet Laboratory	1 x 100 m ² (hangar type)
Workshop	1 x 100 m ² (hangar type)

SURVEY / RO(T)V SYSTEMS

ROV Equipment	Hydraulic or Electric Powered Work Class ROVs Inspection Class ROVs FOCUS II ROTV's including Sidescan sonar and multibeam
ROTV Equipment	1 x L3 Klein 3310 Subbottom Profiler 1 x L3 Klein 3000 Side Scan 1 x Edgetech 4200 Side Scan
Tow-Fish Equipment	CPT (Shallow & Deep) Vibro Corer Sparker Boomer Digital Seismic
Optional Equipment	Magnetometer arrays

NOORDHOEK PATHFINDER: SPECIFICATIONS



OFFSHORE

Within the group, the offshore business unit is the all-round subsea contractor operating within the offshore and renewable industry.

With more than 50 years experience, our offshore business unit has developed into a highly experienced contractor with a flexible focus on client requirements and a solid commitment to quality, health and safety and environmental aspects. The capabilities of N-Sea include diver and ROV based subsea construction, installation, inspection, maintenance, repair, decommissioning and abandonment, remediation and stabilization.

COMMUNICATIONS

Hardwire comms to / from:

Bridge / OCM Office / Client Office / Crane / ROV Control A-Frames / Engine room

AUDIO / VIDEO

Video Recording Systems	2 x Digital Edge DVR's including survey and sensor overlays
Black Box	Santec Sanstore system
Video / Audio Replication	from/to ROV control to bridge, crane, client, ocm offices and engine room
Inspection Suites	2 x Digital Edge DVR's inspection systems optional alternative solutions available
Surveillance / CCTV	Various deck - cameras installed

NOORDHOEK PATHFINDER

The Noordhoek Pathfinder is a new generation purpose-built ROV Support / Survey Vessel. Its transit speed and endurance enable extremely efficient operations and the vessel is capable of performing a broad range of tasks worldwide.

The Noordhoek Pathfinder is equipped for ROV and survey projects, with integrated USBL system, vessel-mounted multibeam and sub-bottom profiler systems, ROV and ROTV as standard.

Working areas will include online and offline survey rooms and a dedicated ROV control room, with sufficient facilities for data acquisition, processing and reporting to be carried out onboard. The 25 mT offshore crane and three spacious moon pools allow for safe and efficient deployment of additional subsea hardware such as geotechnical and sediment sampling equipment.

GENERAL INFORMATION

Vessel Name	Noordhoek Pathfinder
Ship Type	DPII Multipurpose Offshore Support Vessel
Classification	Lloyds Register, +100A1, +LMC, DP (AA) / Class II
Flag/Port of Registry	Dutch, Zierikzee

PRINCIPAL DIMENSIONS

Length Overall	61.87 m
Breadth	12.80 m
Depth Moulded	5.50 m
Gross Tonnage	1659 mT
Deadweight	1500 mT (@4.65 m draught)
Draught Summer	4.65 m

MANOEUVRING AND PROPULSION SYSTEMS

Main Engines	2 x 910 kW (Caterpillar) 2 x 550 kW (Caterpillar)
Main Propulsion	2 x 900 kW (Veth/Azim)
Emergency Generators	1 x 105 kW (Caterpillar)
Forward Thrusters	2 x 350 kW (Veth/Tunnel)
Shore Connection	1 x 105 kW



N-SEA: NOORDHOEK PATHFINDER



DYNAMIC POSITIONING SYSTEMS

DP System	Navis
Dynamic Classification	1 x Trimble DGPS 1 x CNAV 3050 DGPS 1 x Tautwire System 3 x Gyro Compasses 1 x Sonardyne Ranger 2 USBL 2 x Vertical Reference Units 2 x Wind Sensors 1 x Cyscan (Interface)

TANK CAPACITIES

Fuel Oil	589 m ³
Fresh Water	217 m ³
Ballast Water	566 m ³
Lub. Oil	8.0 m ³

MOON POOLS

Main Moon Pool	3.0 m x 3.6 m
Auxiliary Moon Pool	2 x Ø 1.0 m

DECK MACHINERY

Offshore Crane	25 mT at 10 m / sea state 5-6
Deep Water Winch	Various options available
Lashing Points	12 x 10 mT SWL 13 x 20 ft Container Fittings
Power Supply on Deck	480 V / 440 V / 220 V / 60 Hz

CARGO AREA

Work Deck Area	360 m ²
Deck Strength	5.0 mT / m ²
Below Decks	80 m ² (hatch covered)

ACCOMMODATION FOR 40 PERSONS

Cabins: 40 persons

Offices:

1 x Ship's Office on Bridge
1 x Survey Offline office
1 x Survey Online room
1 x Client office
1 x Messroom
1 x Recreation Area

NAVIGATION AND COMMUNICATION SYSTEMS

Navigation:

1 x Magnetic Compass
1 x Radar, 12 ft. Scanner, S-Band
1 x Radar, ARPA, 6.5 ft. scanner with display at DP Console
1 x Navtex
1 x Echosounder (200 kHz)
1 x Doppler Log (Bottom & Water Track)

Communication:

2 x Inmarsat Satcom C (with SSAS)
1 x Iridium
1 x V-SAT
1 x MF/HF DSC Transceiver / Controller
2 x SART Radar Responders
1 x EPIRB Hydroacoustic Release
2 x VHF Radio Transceiver DSC FD

PERFORMANCE / CONSUMPTION

Economical Speed	10 kn at 8 m ³ / day
Service Speed	12 kn at 12 m ³ / day
Survey Operations	4 kn at 3 m ³ / day
DP Operations	2.5 kn at 4 m ³ / day
Endurance	28 days



DELIVERING SUBSEA

PEOPLE / VESSELS / EQUIPMENT

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N-Sea Certificates
ISO 9001
ISO 14001
VCA
OHSAS 18001

The specifications are believed to be correct and subject to revision without prior notice. Interested parties must inspect the vessel for suitability. Revised January 2020.

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